NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NO.NEWZ/BBMP/DD/PMC/2020-2021

Date:03-02-2021

To,
The Executive Engineer,
Dasarahalli Division

" INSPECTION REPORT"

Dear Sir,

Subject: Regarding Inspection Report for the below mentioned work.

Name of Work: Improvements of CC Drain and Covering Slab and RE-Asphalting Excel Kalyana Mantapa road and Bharathi Theater roads in Dasarahalli Ward No 15..

Item No	Description of work	Unit	Qty
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) ,SR Rate 2018-19.	sqm	258.20
2	KSRRB 300 - Excavation for road, drains and similar works SRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw	Cum	866.22
3	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates	Cum	90.42
4	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates	Cum	140.76
5	Providing and fixing RCC precast Slabs of 0.10 m thick of CC M20 with 20 mm and down size graded granite metal , machine mixed , including cost of all material , labour	sqm	460.00
6	Providing and fixing Pre cast solid concrete kerb stones made out of No.272.21 CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc. complete -do- of	No	551.11
7	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after	sqm	48.30
8	KSRB 15-19.2 : Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat	Sqm	48.30
9	Providing and SUPPLYING Stone Dust/Grit,4.75mmto0.075.SR 2108-19 P II I0400	Cum	136.88
10	KSRRB M400-6.2. Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, spreading in uniform layers with	Cum	120.45
11	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam	Cum	172.43
12	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface	sqm	1272.20
13	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder	Cum	145.53
14	KSRRB M500-10. Providing and applying tack coat using 80/100 grade bitumen(VG10) in boiler fitted with spray set distributor at the rate of 0.20 kg per sqm on the existing	sqm	3207.30
15	Providing and laying Bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler,	Cum	128.29

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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Item No	Description of work	Unit	Qty
16	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bitumin ous Surface:- Providing and laying of hot applied	sqm	104.60
17	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/sand/.kanker/moorum. KSRRB M100-1:Placing tipper at loading point,	Cum	1010.00

With respect to the above subject & name of the work, we have inspected the work and the Quantity and Quality of above mentioned items of the work was found to be completed satisfactorily for the 1st and Final bill

Thanking you,

With Regards,

For Newzen Consultants Bangalore

NEWZEN CONSULTANT ★ Bangalore ★

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ಬೆಂಗಳೂರು-560073

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NC/QC/DD/W15/2020-21-C1 Date: 09-11-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements of CC Drain and Covering Slab and RE-Asphalting Excel Kalyana Mantapa road and Bharathi Theater roads in Dasarahalli Ward No 15.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Dasarahalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: D. Anand Naidu, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**154 min**	Shall not be less than 30 min
2	Final setting time	**260 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.14%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.06mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.74 N/Sq mm**	Shall not be less than 27 N/Sqmm

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ಬೆಂಗಳೂರು-560

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/DD/W15/2020-21-PCC1 Date: 09-11-2020

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements of CC Drain and Covering Slab and RE-Asphalting Excel Kalyana Mantapa road and Bharathi Theater roads in Dasarahalli Ward No 15.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Dasarahalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: D. Anand Naidu, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	67.20	0 -20	30- 70
10mm	31.90	0 -5	10- 35
4.75mm	4.05	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	95.70	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	81.25	60-95	75-100	85-100	
01.18	73.05	30-70	55-90	75-100	
600.mic	47.80	15-34	35-59	60-79	
300.mic	22.15	5-20	8-30	12-40	
150.mic	6.80	0-10	0-10	0-10	

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ಬೆಂಗಳೂರು

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/DD/W15/2020-21-CE1 Date: 10-11-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements of CC Drain and Covering Slab and RE-Asphalting Excel Kalyana Mantapa road and Bharathi Theater roads in Dasarahalli Ward No 15.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Dasarahalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: D. Anand Naidu, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**158min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.86 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.94 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.56 N/Sq mm**	Shall not be less than 27 N/Sqmm

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ಬೆಂಗಳೂರು-560

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/DD/W15/2020-21-FA1 Date: 10-11-2020

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Improvements of CC Drain and Covering Slab and RE-Asphalting Excel Kalyana Mantapa road and Bharathi Theater roads in Dasarahalli Ward No 15.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Dasarahalli Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: D. Anand Naidu, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**95.15**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**82.45**	60-95	75-100	85-100	
01.18	**71.30**	30-70	55-90	75-100	
600. mic	**46.55**	15.34	35-59	60-79	
300.mic	**24.70**	5-20	8-30	12-40	
150.mic	**6.90**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**17.66 %**	-----
2	Silt Content	----	**0.59%**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

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ಬಾ'ನಗರಂತೆ. ಜಿ.ಬಿ.ಎಂ.ಪಿ
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For Newzen Consultants Bangalore
Proprietor

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NC/QC/DD/W15/2020-21-CA1 Date: 10-11-2020

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Improvements of CC Drain and Covering Slab and RE-Asphalting Excel Kalyana Mantapa road and Bharathi Theater roads in Dasarahalli Ward No 15.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Dasarahalli Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: D. Anand Naidu, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	95.70	85-100	90 - 100
10 mm	46.25	0 - 20	25 - 55
4.75 mm	3.90	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	26.46%	Not to exceed 25 %
2.	Crushing value	28.74%	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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For Newzen Consultants Bangalore

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/DD/W15/2020-21-K1

Date: 13-11-2020

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvements of CC Drain and Covering Slab and RE-Asphalting Excel Kalyana Mantapa road and Bharathi Theater roads in Dasarahalli Ward No 15.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Dasarahalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: D. Anand Naidu, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.35	22.95	**22.83**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.29	22.10		
3	003	3.39	23.45		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.56	**4.53**
2	002	4.39	
3	003	4.65	

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ಬೆಂಗಳೂರು-560

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/DD/W15/2020-21-K2 Date: 17-11-2020

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvements of CC Drain and Covering Slab and RE-Asphalting Excel Kalyana Mantapa road and Bharathi Theater roads in Dasarahalli Ward No 15.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Dasarahalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: D. Anand Naidu, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.31	22..40	**22.98**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.39	23.45		
3	003	3.36	23.10		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.52	**4.65**
2	002	4.76	
3	003	4.68	

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ಬೆಂಗಳೂರು-560

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/DD/W15/2020-21-CB1

Date: 19-11-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements of CC Drain and Covering Slab and RE-Asphalting Excel Kalyana Mantapa road and Bharathi Theater roads in Dasarahalli Ward No 15.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Dasarahalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: D. Anand Naidu, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	12-11-20	19-11-20	07	22500	300	13.33	**13.41**
	002	"	"	"	"	295	13.11	
	003	"	"	"	"	310	13.78	

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ಬೆಂಗಳೂರು-560

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/DD/W15/2020-21-CB2 Date: 24-11-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements of CC Drain and Covering Slab and RE-Asphalting Excel Kalyana Mantapa road and Bharathi Theater roads in Dasarahalli Ward No 15.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Dasarahalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: D. Anand Naidu, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	17-11-20	24-11-20	07	22500	305	13.56	**13.78**
	002	"	"	"	"	315	14.00	
	003	"	"	"	"	310	13.78	

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ಬೆಂಗಳೂರು-560073

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NEWZEN CONSULTANT * Bangalore *

NC/QC/DD/W15/2020-21-CB3 Date: 26-11-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements of CC Drain and Covering Slab and RE-Asphalting Excel Kalyana Mantapa road and Bharathi Theater roads in Dasarahalli Ward No 15.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Dasarahalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: D. Anand Naidu, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-11-20	26-11-20	07	22500	320	14.22	**13.93**
	002	"	"	"	"	305	13.56	
	003	"	"	"	"	315	14.00	

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ಬೆಂಗಳೂರು-560

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/DD/W15/2020-21-CB1A Date: 10-12-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements of CC Drain and Covering Slab and RE-Asphalting Excel Kalyana Mantapa road and Bharathi Theater roads in Dasarahalli Ward No 15.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Dasarahalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: D. Anand Naidu, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	12-11-20	10-12-20	28	22500	400	17.78	**18.30**
	002	"	"	"	"	415	18.44	
	003	"	"	"	"	420	18.67	

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಡಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ. ಬಿ.ಬಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು-560073

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/DD/W15/2020-21-CB3A Date: 17-12-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements of CC Drain and Covering Slab and RE-Asphalting Excel Kalyana Mantapa road and Bharathi Theater roads in Dasarahalli Ward No 15.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Dasarahalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: D. Anand Naidu, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-11-20	17-12-20	28	22500	415	18.44	**18.44**
	002	"	"	"	"	425	18.89	
	003	"	"	"	"	405	18.00	

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ಬಿ ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಪಾಲಿಕೆ

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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Sample Collected Site : Basappa Layout Main Road

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NC/QC/DD/W15/2020-21-DS2 Date: 15-01-2021

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.
{Project*: Improvements of CC Drain and Covering Slab and RE-Asphalting Excel Kalyana Mantapa road and Bharathi Theater roads in Dasarahalli Ward No 15.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Dasarahalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: D. Anand Naidu, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1256**	900
2	Marshall Flow at 60°C, mm.	**3.44**	2.0 - 4.0

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ಬಾಗಲಗುಂಟೆ. ಪಿ.ಐ.ಎಂ.ಟಿ
ಬೆಂಗಳೂರು 560073

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/DD/W15/2020-21-DBM3 Date: 16-01-2021

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.
{Project*: Improvements of CC Drain and Covering Slab and RE-Asphalting Excel Kalyana Mantapa road and Bharathi Theater roads in Dasarahalli Ward No 15.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Dasarahalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: D. Anand Naidu, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.54 %**

2. Gradation Test
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	**100**	100
26.5	**98.15**	90-100
19.0	**83.15**	71-95
13.20	**71.40**	56-80
4.75	**46.70**	38-54
2.36	**38.05**	28-42
0.300	**17.90**	7-21
0.075	**7.15**	2-8

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಟಿ ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾ:ಆಗುಂಟೆ. ಬಿ.ಬಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು-560073

For Newzen Consultants Bangalore
Director

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/DD/W15/2020-21-DS3

Date: 16-01-2021

TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.
{Project*: Improvements of CC Drain and Covering Slab and RE-Asphalting Excel Kalyana Mantapa road and Bharathi Theater roads in Dasarahalli Ward No 15.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Dasarahalli Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: D. Anand Naidu, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1258**	900
2	Marshall Flow at 60°C, mm.	**3.42**	2.0 - 4.0

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ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು 560057

For Newzen Consultants Bangalore

Director

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/DD/W15/2020-21-BB1

Date: 13-01-2021

1. TEST REPORT ON BITUMEN SAMPLE:

Sub: Testing of Bitumen sample VG-30 Grade.
{Project*: Improvements of CC Drain and Covering Slab and RE-Asphalting Excel Kalyana Mantapa road and Bharathi Theater roads in Dasarahalli Ward No 15.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Dasarahalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: D. Anand Naidu, Bangalore.
Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE 1.1 ;

SL No	Details	Test Results	Requirements as per I.S 73 –1992 Specifications
1.	Penetration at 25^0 C	**51.60^0 C**	Min. 45
2.	Ductility Value at 25^0 C	**108.0 cm**	40
3.	Flash point	**237^0 C**	Minimum 220^0 C
4.	Softening point	**50.30^0 C**	Min. 47

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ಬಾಗಲಗುಂಟೆ, ಬಿ.ಬಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು-560073

For Newzen Consultants Bangalore

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/DD/W15/2020-21-CB1 Date: 13-01-2021

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Bituminous Concrete.
{Project*: Improvements of CC Drain and Covering Slab and RE-Asphalting Excel Kalyana Mantapa road and Bharathi Theater roads in Dasarahalli Ward No 15.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Dasarahalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: D. Anand Naidu, Bangalore.

TABLE 1.1 ;

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**22.89 %**	Not more than 24.00 %
2.	Combined Flakiness and Elongation index, %	**27.65 %**	Not more than 35.0 %
3.	Water absorption, %	**0.42%**	Not more than 2.0 %
4.	Specific gravity	**2.62**	-------
5.	Soundness	**5.38%**	Max. 12 % in Sodium Sulphate

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ಬಾಗಲಗುಂಟೆ. ಬಿ.ಬಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು 560073

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/DD/W15/2020-21-BC1 Date: 16-01-2021

LTEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements of CC Drain and Covering Slab and RE-Asphalting Excel Kalyana Mantapa road and Bharathi Theater roads in Dasarahalli Ward No 15.}

Ref.: Material testing/PMC/20-21.

Report Required for: Assistant Executive Engineer,
Dasarahalli Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: D. Anand Naidu, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.41 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**97.25**	90-100
9.5	**83.10**	70-88
4.75	**67.50**	53-71
2.36	**54.25**	42-58
1.18	**43.35**	34-48
0.600	**34.75**	26-38
0.300	**22.60**	18-28
0.150	**18.25**	12-20
0.075	**7.15**	4-10

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ಬೆಂಗಳೂರು 560073

For Newzen Consultants Bangalore

Director

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/DD/W15/2020-21-BS1 Date: 16-01-2021

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

{Project*: Improvements of CC Drain and Covering Slab and RE-Asphalting Excel Kalyana Mantapa road and Bharathi Theater roads in Dasarahalli Ward No 15.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Dasarahalli Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: D. Anand Naidu, Bangalore.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1368**	900
2	Marshall Flow at 60°C, mm.	**3.54**	2.0 - 4.0

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ಡಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-560073

For Newzen Consultants Bangalore

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/DD/W15/2020-21-BC2 Date: 18-01-2021

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements of CC Drain and Covering Slab and RE-Asphalting Excel Kalyana Mantapa road and Bharathi Theater roads in Dasarahalli Ward No 15.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Dasarahalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: D. Anand Naidu, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.42%**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**98.25**	90-100
9.5	**83.10**	70-88
4.75	**64.45**	53-71
2.36	**54.80**	42-58
1.18	**42.70**	34-48
0.600	**35.50**	26-38
0.300	**24.60**	18-28
0.150	**16.25**	12-20
0.075	**8.40**	4-10

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ಬಾಂಗಳೂರು ಮಹಾ. ಪಾಲಿಕೆ.
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NC/QC/DD/W15/2020-21-BC3 Date: 18-01-2021

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements of CC Drain and Covering Slab and RE-Asphalting Excel Kalyana Mantapa road and Bharathi Theater roads in Dasarahalli Ward No 15.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Dasarahalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: D. Anand Naidu, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.41 %**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**97.25**	90-100
9.5	**81.10**	70-88
4.75	**67.50**	53-71
2.36	**52.25**	42-58
1.18	**44.35**	34-48
0.600	**31.75**	26-38
0.300	**24.60**	18-28
0.150	**18.25**	12-20
0.075	**7.15**	4-10

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ಬಾ.ಮ.ಗುಂ.ಪಾ. ಬಿ.ಬಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು 560073

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@

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NC/QC/DD/W15/2020-21-BS3 Date: 18-01-2021

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.
{Project*: Improvements of CC Drain and Covering Slab and RE-Asphalting Excel Kalyana Mantapa road and Bharathi Theater roads in Dasarahalli Ward No 15.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Dasarahalli Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: D. Anand Naidu, Bangalore.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1368**	900
2	Marshall Flow at 60°C, mm.	**3.56**	2.0 - 4.0

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ಬೆಂಗಳೂರು-560073

For Newzen Consultants Bangalore
Proprietor

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